The Plant Beautiful

BY J. H. PAUL, DIRECTOR OF NATURE STUDY IN THE STATE NORMAL.

OBSERVATIONS FOR THE FOURTH WEEK IN SEPTEMBER

cipal types of "the plant beautiful" Strong, rich soil suits them best, and of bloom. The five-fold plan of the among our fall flowering plants, wheth- they should have plenty of room; oth- flowers should be studied by fifth grade er native or cultivated. The materials erwise, as in our crowded flower space, pupils. The plants will bloom before for this observation are abundant and, for the most part, readily accessible in garden, field or canyon. The training school garden of the state normal, for example, contains this year a flower strip about five feet in width and aggregating some sixty rods, or one and a half city blocks, in length, and is a mass of floral beauty throughout its entire extent. This garden was cultivated by the fourth year normal students last spring, and by the children of the several grades under their direction. The plants have thrived to an extraordinary degree, under only moderate care, on the fertile, virgin soil of the tract set apart by the university as the nature laboratory in plant life. I take this occasion to invite any or all of the graduates of last year and the general public also, to pay a visit to the scene of this rather unexpected result of a little systematic effort on the part of the pupils last spring in seed planting. Of course they first prepared the soil, then selected their seeds, then chose a favorable day for planting. Some of them kept the ground weeded and the soil loose on top, while the tiny seedlings were making their first brave struggle. Now the pupils the seeds they planted last spring, and their delight in visiting their garden and in observing its varied specimens, particularly those of striking hues and artistic or unique form, is a strong proof of the educational value of this plan of making the child's own work

Eighth Grade Oddities.

The Cockscomb (Celosla crista) flowers in the midst of our more showy ably in long rows, climbing over open kinds, though it would have been best fences or rabbit wire well supported. as a border. Those we have are red, They require deep, rich, well tilled soil. yellow and pink, but there are also At a depth of ten inches should be a They grow wild in the Sierra Nevadas crimson forms at the florist's. If transplanted into open, rich ground, about the time the combs begin to form, the larger of rotted manure. The seeds are planted under two inches of soil, in early spring, so that the ground is best flourishing from seeds sown late last Bright from midsummer to frost, they present a decided contrast to the ordinary red-root, a pig-weed that is a and observe the device which secures near relative, growing right beside it. The inconspicuous flowers in the weedy mass that forms the flowering head of the pigweed may be found by the stamens, and then the two plants should be compared as to color, form, not be overlooked.

Seventh Grade Glories.

Each grade and, in fact, every interested observer should aim to study at least two examples of the several principal types of "the plant heaviful" flower profusely in our collection.

Each grade and, in fact, every interested observer should aim to study at leaves may be studied like those of the trasting colors, on long stems and low growing, the flowers borne on lateral flower profusely in our collection. nutrition to become "double," as in the ruary in a living room; otherwise plant illustration, though in such case this in March in a hotbed, after soaking the observation and study.

The ageratums in our garden are a dwarf blue that would make a fine border. They seem very thrifty and could probably be raised in any school stem relative, a little mat-like plant, each stem redictions from the rest and relative. garden in the state. Sow the seed in the open ground in May for fall bloom. Seed sown in August will produce plants for winter flowering in the school read would be seed in the open ground in May for fall bloom. Seed sown in August will produce plants for winter flowering in the school read. school room. These plants (see cut) tiny purple corollas, subtended by large are neat, bushy, erect, and produce a heary bracts. It is Verbena bracteosa, profusion of pretty, brush-like flowers. commonly found by the roadsides in our

Sixth Grade Gems.

The pansy should be sown very early to secure good spring flowers, and if rain is plentiful the flowers will bloom before school closes. The seed for most striking feature of our control of the formula and common popples are beautiful and very prolific, the golden beds of the formula and common popples are beautiful and very prolific, the golden beds of the formula and common popples are beautiful and very prolific, the golden beds of the formula and common popples. them two or three inches apart each colors, the curious stamens, the angled points to observe.

Scarlet sage (Salvia splendens) is May. It keeps the garden bright the basis of his nature studies in the till late in autumn, and makes a strong border of intense color. Ours were not successful this year.

Sweet peas (Lathyrus odoratus) appear to be of easy cultivation, preferseeking the nectar of the sweet pea, duced. These flowers are all this result.

Fifth Grade Regulars.

Our portulacas are mostly single, probably from being too crowded. The double ones shown in the cut are more flowers and seeds. The use of the red-root in furnishing bird food, especially graders to study—the five deep red or castor oil plant (Richus) for the for the snowbirds in January, should petals, the row of curious leafy bracts third grade to investigate. Ours are In many gardens will be found the ing here has a little sister creep-glorious color effects of those notable ing in waste places and similar as to hairy bracts. It is Verbena bracteosa,

fact itself is an interesting point for seeds a few hours in tepid water. Sow observation and study.

Fourth Grade Beauties.

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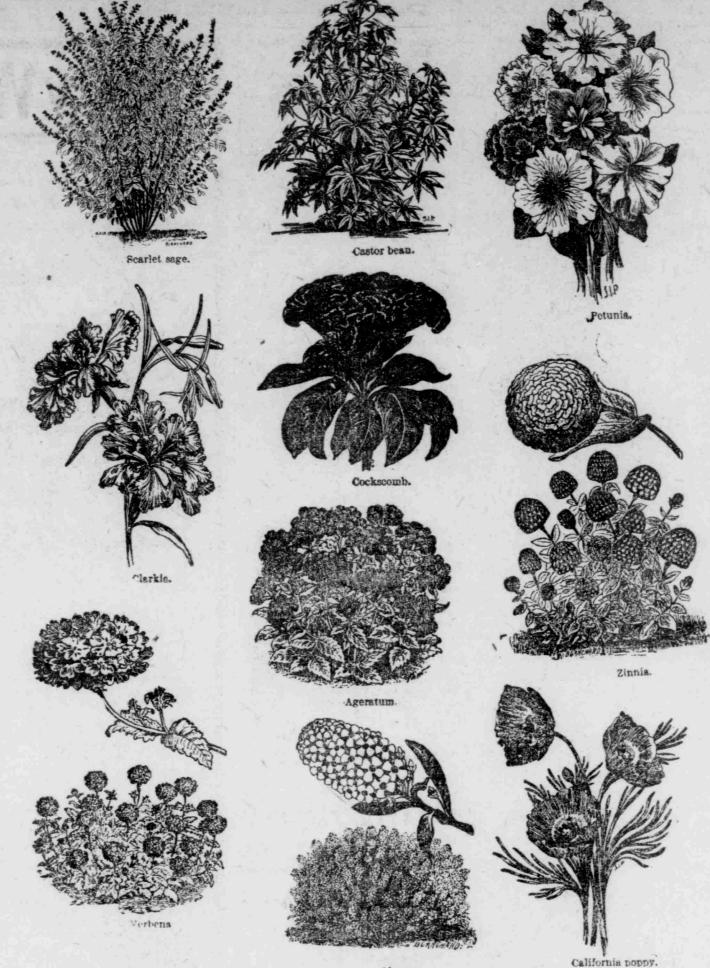
spring bloom, however, is usually sown in September in rich, moist garden beds, from which the plants are later transplanted to a cold frame, setting them two or three inches apart each way before cold weather begins. In yellow and orange, closing gradually in spring three-fourths of them can be lifted out for bedding and the rest left to bloom in the frame. Seed sown in the frame and July will either in spring or autumn. The comether in spring or autumn. The comether in spring or autumn from of each grade gather the flowers from give good flowering plants for fall. The whose this spring and whose juice the opium of commerce is stems, the stipules and the style are the prepared, likewise flowers from early spring to frost, and requires similar sowing, but in light, sandy soil, thinly first sown in window boxes in March bold aspect, brilliant coloring, grace of stem, airiness of poise and delicacy of tissue, fix the attention of pupils almost without effort on the part of the teacher. The curious seed pod, a veritable pepper box, is also a good object of study.

I regret to say that our garden contains no clarkias, the prettiest of hardy native annuals (excepting the wild col-

prepared in the fall. Study how the spring. By cutting back after the bees get covered with pollen when first flowers fade, others will be proparted and present a conspicuous invitation to fourth grade pupils.

A Third Grade Study.

Typical third grade plants, the water lilies, are lacking in our fall collection. below the sepals, the numerous sta- now four or five feet high, and may yet mens, the thick, lustrous and dewy reach six feet. The leaves are large leaves. The garden portulaca, grow- and interesting, the foliage itself of



fall bloomers, the cosmos, of which flowers and leaves, and the habit both our garden contains several kinds. Have of carpeting the ground with a Bright and bold, yet dainty and airy mass of succulent foliage that in the in aspect, the effect of the brilliant, forenoon is hidden by gay and brilliant third grade, because of the bright flower is an excellent type for the the calyx and corolla are termed when pollen—a device that insures cross fer- so that, as they open and disclose their daisy-like flowers is heightened by the fall stems and the feathery green foliage. The plants will be three or four feet in height flowers. The seed is sown late—in hot or deady and brilliant third grade, because of the bright flowers. The seed is sown late—in hot or humming both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the pistil divididate that, as the upper and corolla are termed when both are colored alike; the policy are the cally and corolla are termed when both are colors and the size. So that are the cally are the cally are the cally are the cally are the cally

the bee or moth to another plant whose pistil receives it.

Second Grade Splendors.

Dahlias are splendid Mexican species of the easiest cultivation. Ours were planted as tubers last spring by the seventh grade class, and this fall the eighth graders, the same pupils, will harvest the tubers and store them for the winter. These Mexican beauties, either blondes or brunettes, are well suited to our soil and climate, and thrive almost everywhere in city gar dens. Let second grade pupils observe their tubular cornucepias and snowball heads, name the various colors and paper-cut the leaf forms.

A First Grade Prize.

Our petunias and morning glories are a fine attraction for first grade pupils, who delight in their delicate and lovely hues, their odd shapes and peculiar behavior. Their long tubes with nectar for the moths and with insects and nectar for the humming birds, are points for special observation. University of Utah, Sept. 20, 1907.

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